



(U) Hurricane Harvey: Infrastructure Impact Assessment: Transportation Systems, 1930 EDT 25 August 2017

(U) Assessment

(U) OCIA assesses that most transportation systems in the affected area will cease operations during the storm and that recovery efforts may take days to weeks, depending on the level of damage and restoration priorities. Transportation disruptions may cause a short-term interruption in local supply chains. Affected supply chains will likely recover as the storm passes, with no long-term impacts to supply chains anticipated.

(U) Limited-to-moderate physical damage is anticipated to port facilities along the Texas Coast—the center of U.S. imports and exports of crude oil and refined petroleum products. Most port facilities are hardened with berms and flood walls which should protect against storm surge. Seven ports, including the ports of Corpus Christi, Freeport, and Houston, have closed with additional ports potentially closing as the storm moves further north.

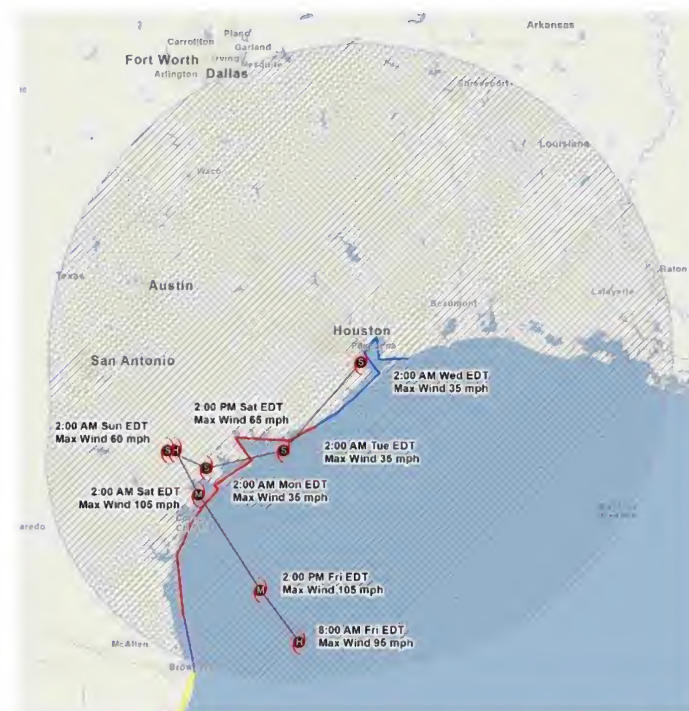
(U) The Coast Guard will survey port waterways following the storm to identify damaged navigational aids and hazardous debris and ensure waterways are clear for vessel traffic. Barge traffic on the Intracoastal Waterway may still be disrupted following the storm due to sediment build-up and debris. Shipping disruptions may be longer than a typical storm because of the likelihood that Hurricane Harvey makes landfall and then heads back into the Gulf of Mexico.

(U) The Corpus Christi International Airport has been closed and is expected to re-open on 28 August. The George Bush Intercontinental Airport and the William P. Hobby Airport in Houston are experiencing flight delays and cancellations. Potential airport closures are possible as the storm progresses. Airports will reopen once power has been restored and damage to airport facilities has been assessed.

(U) Flooding could wash out rails, damage rail yards, and take days to weeks to repair. Rail yards prone to flooding have likely been cleared of rail cars. Rail covered by debris will be inoperable until cleared. Freight rail companies will divert trains, localizing any disruptions to freight shipments. Rail yards can operate manually if power is not available.

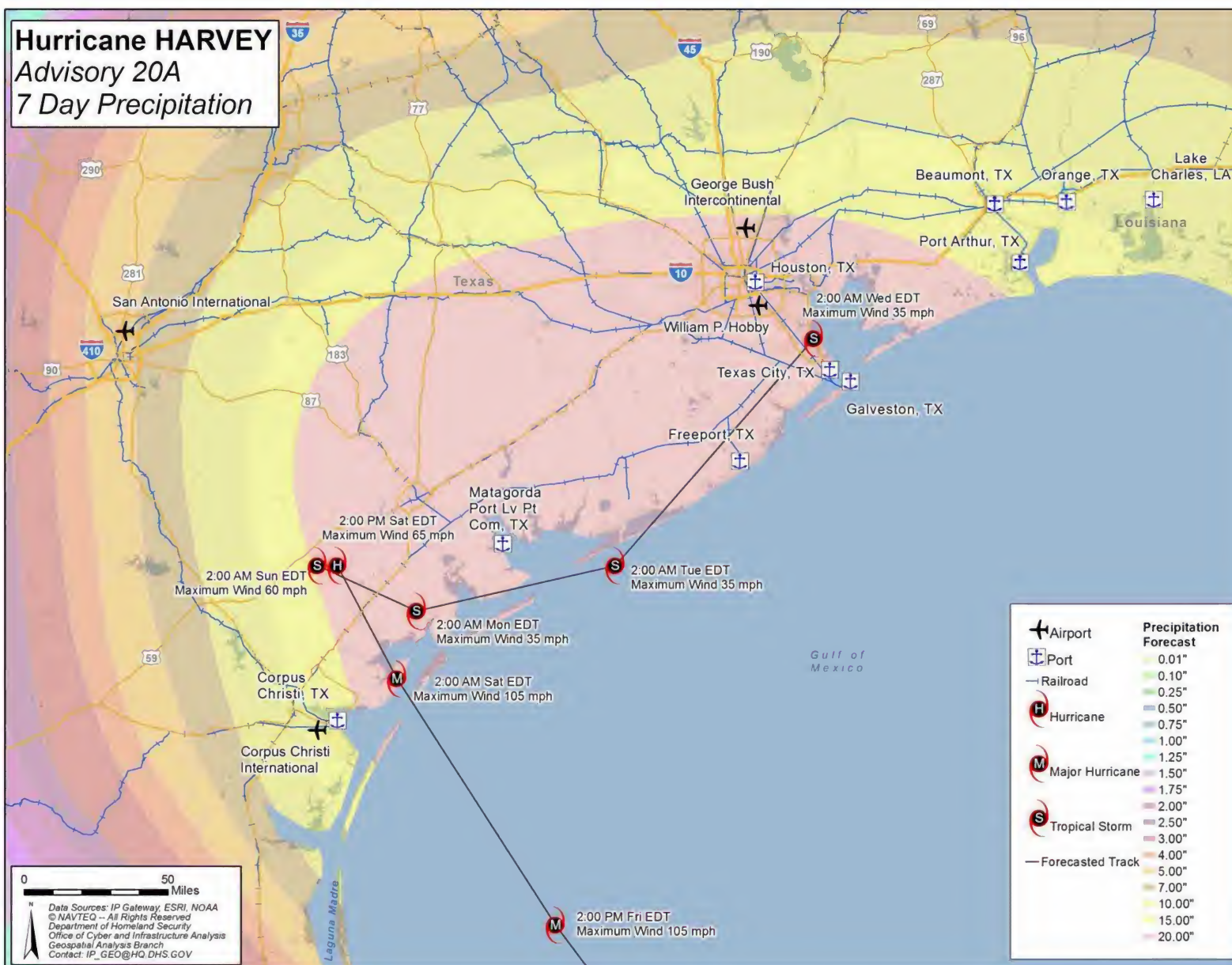
(U) Highways and roads may become impassible due to debris or floodwaters. Storm surge and floodwaters can also be heavily damaged and wash out roads and bridges, potentially impacting local traffic for days or weeks following the storm. Flooding on major routes will force traffic onto alternate routes with less capacity, creating the potential for increased congestion.

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(U//FOUO) FIGURE 1— HURRICANE HARVEY TRACK

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(U//FOUO) FIGURE 2—TRANSPORTATION SYSTEMS ASSETS IN HURRICANE HARVEY'S TRACK AS OF 0800 EDT AUGUST 25

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NPPD Customer Feedback Survey

1. Product Title: Hurricane Harvey - Transportation Systems (FOUO)

2. Please rate your satisfaction with each of the following:

	Very Satisfied (5)	Somewhat Satisfied (4)	Neither Satisfied Nor Dissatisfied (3)	Somewhat Dissatisfied (2)	Very Dissatisfied (1)
Timeliness of product	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Relevance of product	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

3. How did you use the information or products?

☐ Yes ☐ No Integrated into one of my own organization's information or analytic products
If so, which products?

☐ Yes ☐ No Used contents to improve my own organization's security or resiliency efforts or plans
If so, which efforts?

☐ Yes ☐ No Shared contents with government, private sector, or other partners
If so, which partners?

☐ Yes ☐ No Other uses (please specify)

4. Do you have questions that this product didn't answer?

Yes ☐ No ☐ (Please specify)

5. How could this product be improved?

6. Would you like to see more on this topic?

Yes ☐ No ☐ (Please specify)

7. Are there other topics or questions you would like to see addressed by OCIA?

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